Installation Instructions for Burris Rings and Bases

OVERVIEW AND SAFETY CONSIDERATIONS BEFORE PROCEEDING

Please read instructions as improper installation attempts may result in damage not covered by warranty. Observe safe firearms handling practices during this installation. Make sure firearm is unloaded before beginning. Eye and hearing protection should always be worn when shooting. Be aware that most scope alignment problems are due to mounting hole misalignment with the barrel, or the barrel not being in line with the receiver. The scope mount's windage screws on universal-style bases can correct this problem for windage, but for extreme elevation corrections, shimming, machining the mount, or the use of Signature Rings™ and Signature Pos-Align® Offset Inserts may be necessary.

TOOLS AND SUPPLIES NEEDED

A steel, wooden or aluminum dowel 1" (for standard rings) or 1.125 to 1.140" (for Signature Rings™); cleaning agent; heavy grease, large screw driver, and appropriate size wrench or key (supplied). A bore sighting tool is recommended.

INSTALLING THE BASE

The firearm should be clamped in a firm position, preferably in a vise with padded jaws that will not mar the finish. Remove all oil and grease from the top of the receiver and remove filler screws from the attach holes on top of the receiver. Position the base with the two large windage screws to the rear. Attach base to receiver with the attaching screws supplied. With Torx® screws, we no longer suggest using a cement on the attach screws. If you use a cement between the base and receiver, be sure that if excess cement enters the chamber or action, promptly remove it.

Caution: Because of the extreme strength of Torx® screws, be very careful not to over-tighten them. These screws are often harder than the action of your gun and could strip the threads if too much force is applied. Attach screws should not protrude into the action when tight. Shorten as necessary.

INSTALLING STANDARD (Universal-style) and DOUBLE DOVETAIL™ RINGS

1. Remove the right windage screw on universal style bases.
2. Place a one inch diameter dowel (1.14" to 1.125" for Signature Rings™) in the bottom half of the front dovetail ring, replace ring top and tighten screws.
3. Apply heavy grease to dovetail and bottom of the ring stem. Position the dovetail into its seat in the base and rotate 90 degrees to turn the dovetail until the dowel is lined up with the barrel. This dovetail is a snug, exact interference fit so there is no movement between the ring and the base. Do not use the scope for this purpose as you could bend the scope tube. This type of damage is not covered by our warranty. Repeat this process for the rear ring for Double Dovetail™ applications. Remove ring tops and remove dowel.
4. On Standard (Universal-style) rings, loosen the rear windage screws and center the rear ring between them. Tighten both windage screws.
5. Place the scope in the ring bottoms to check for alignment. If the scope doesn't easily lay in the bottom of the rings, a slight adjustment of one or both rings may be necessary. In the case of Signature Rings™, slight misalignment is no problem because of the self-centering, pivoting inserts.

MOUNTING THE SCOPE IN THE RINGS

1. Degrease rings and scope with acetone or alcohol.
2. Remove the top halves of the rings being careful not to switch or rotate them as they should be replaced exactly as they are removed.
3. On steel rings, install the friction paper in the bottom of each ring. Friction paper is not needed or recommended on Signature Rings™.
4. Position the scope in the bottom halves of the rings and replace the top halves. In the case of Signature Rings™, lay one insert in the bottom half of each ring; lay the scope on the inserts; place the top inserts on the top of the scope and replace the top halves of the rings. Tighten the ring screws lightly so that the scope can be rotated to position the reticle properly and to move the scope forward and backward to obtain correct eye relief.
5. Set the scope to the maximum eye relief for you.
6. Check to be sure the reticle is level and tighten the ring screws equally so space between the top and bottom halves is uniform. The Torx® ring screws are a special tough carbon steel. Do not over-tighten these screws and do not use cement on these screws.

FINDING THE SCOPE'S MECHANICAL CENTER

To obtain best results it is necessary to have your scope mechanically centered before sighting in. Every Burris scope is shipped mechanically centered, with windage and elevation adjustments in the middle of their range. If you're installing a new scope and need to optically center it, follow these instructions.

1. Turn elevation adjustment all the way up. Then, as you turn it down, count the revolutions until it bottoms. Divide that count by two and turn back that amount. That point is center.
2. Repeat the process for the windage adjustment knob.

SIGHTING IN

The windage screws on the base should be used for coarse windage adjustment. Use the scope's internal adjustments to obtain the final zero. Signature Rings™ and Signature Pos-Align® Offset Inserts are highly recommended to obtain maximum accuracy and maximum optical performance from your fine riflescope. Signature Rings™ are available in Standard(Universal-style), Zee(Weaver®-style), and Double-Dovetail™.

ACCURACY

Burris Company is not responsible for the safety or accuracy of mounting telescopes on firearms. It is recommended that you consult with a competent gunsmith before mounting the telescope and/or shooting the firearm.

Be sure base attach screws, ring screws and windage screws are secure! Check base attach screws and windage screws after shooting for tightness. Check to be sure the mount and screws do not interfere with the gun's action. Sometimes gun manufacturers change their guns without notifying the makers of scope mounts.

SPECIAL INSTRUCTIONS

SIGNATURE RIMFIRE / AIRGUN RINGS

These rings have a hole drilled in their underside to facilitate the installation of a recoil stop roll pin. High quality airgun rifles often have a single recess milled in the top of the receiver to serve as a recoil shoulder. To utilize this feature, simply tap the included roll pin into the hole in the bottom of the ring until roughly 1/8" to 3/16" is protruding from the bottom of the ring. Lower the ring onto the receiver allowing the roll pin to seat into the recoil recess in the receiver. Tap on the top of the ring further seating the roll pin until the bottom of the ring makes contact with the receiver. Now the roll pin is installed to the correct depth. If your receiver does not have a milled recoil recess on the receiver, simply do not concern yourself over the roll pin installation.

SAKO-STYLE BASES

Remove the set screw from each base. Slide the tapered front base onto the tapered receiver top by hand, then with a brass or plastic punch, firmly drive the base tight onto the receiver. Install the set screw tightly for added strength. Repeat process for the rear base and then install rings as described above.

RUGER-STYLE RING MOUNTS

Loosen the windage screws in both ring mounts several turns to allow them to clear the receiver of the rifle. Position each ring mount on the receiver making sure the recoil lug is properly seated in the recess located in the receiver.

Tighten each windage screw an equal amount to align the ring mount in the center of the receiver. Caution should be taken not to offset the ring mount. Loosen one windage screw and tighten the other to correctly center the ring mount.

SPECIAL INSTRUCTIONS FOR BURRIS HANDGUN SCOPE MOUNTS

LU-T FOR THOMPSON CONTENDER®

Burris bases for Contender handguns (items 410362 & 410374) are designed to have the dovetail positioned to the rear and the windage screws toward the front (muzzle) of the gun. This is opposite of how most bases are attached to most receivers. This reverse orientation is essential for proper fit of the base to the barrel and for the proper function of the recoil stop screw located on top of the base.

LU-DW DAN WESSON AND WESSON SCOPE MOUNT

Fits Dan Wesson and Wesson pistols with shroud. This mount is designed to be installed on the shroud. Due to the variety of shrouds available on these pistols, the mount must be positioned to obtain the best attach screw contact. The attach screws provided have No. 6-48 threads. If your gun is not pre-drilled and tapped, it is recommended that a gunsmith perform the drilling and tapping of the three No. 6-48 attach holes.

LU-SW SMITH AND WESSON K, L AND N FRAME

Fits most Smith and Wesson K, L, and N Frame models with adjustable rear sight. Remove rear sight and barrel assembly. Locate mount so recoil step on bottom of base is against the rear sight housing shoulder. Drill and tap No. 6-48 holes just deep enough for the screws to seat. If screws protrude too far they will interfere with barrel assembly. Screws may have to be ground off slightly on some installations.

LU MK II RUGER SCOPE MOUNT BASE

Fits Ruger Mark I and Mark II pistols with adjustable rear sight. To install, remove the rear sight blade and attach to rail with the screw provided. Slip the barrel yoke over the end of the barrel and slide into position, aligning the attach holes in the yoke with those in the top rail. Install and securely fasten the four attach screws. The two set screws located in the bottom of the yoke should now be tightened against the barrel. Note: On models with tapered target barrel, the tapered adapter sleeve provided with each base must be installed on the barrel before sliding the yoke into position. The base is now ready to install Burris (or other) 3/8" dovetail rings.

RECOIL NOTE

Handgun recoil often exceeds rifle recoil. The windage screws must be tightened with a large screw driver and all screws should be checked after the first few rounds are fired. The friction paper should be installed in the bottom halves of standard steel rings to help prevent the scope from slipping in the rings.

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